

Notes from the 1/11/05 MI BPM Requirements Meeting  
Stephen Wolbers

1. Introduction - Stephen Wolbers

- Steve's slides can be found in the Beams docDB as doc #1524.
- In brief, the MI BPM effort is not yet a fully-fledged project with identified tasks and resources. People are busy with other projects, including the TeV BPM, transfer line BPM, etc. and other projects like BTeV are ramping up.
- It is important to discuss, update and get review/signoff of the MI BPM requirements. This requires updating docDB #471.

2. Introduction - Bob Webber

- Bob mentioned that the front-end analog hardware for the MI BPM will likely grow out of the transfer line BPM project, given the similarity of the requirements. He believes that help from CD in manufacturing, quality assurance, etc. would be extremely valuable.
- Bob also mentioned that the software (front end on online) are somewhat different from the other systems commissioned recently because of the complexities and the timescales of the MI. Bob showed plots that illustrated the timescale (seconds or less) of cycles in the MI and the pattern of cycles.
- Bob would like to emphasize that "usability" is very important and should be kept in mind as people discuss the potential capabilities of a new BPM system. A complex and very flexible system does not necessarily lead to a system that is easy to use and quite possibly will never be properly used if it can't be figured out by anyone.

3. Requirements - Alberto Marchionni

- Alberto's slides can be found in Beams docDB #1523.
- There was a long discussion of the requirements that were written two years ago and many places were identified for updates given current understanding of the operation of the machine and/or clarifications of the requirements.
- The plan is to continue the discussion in future weeks with a goal of updating the document (target end January), circulating and iterating the document, and then having it reviewed, possibly revised, and accepted as the requirements for the MI BPM upgrade project.

- One potential issue (admittedly in the future) is the requirement to handle large currents given by the proposed proton driver. It may be as simple as inserting attenuators but it is probably worth a little thought at this time.

- Suggestions were made for future meetings -- including hearing from people involved in other BPM projects (TeV, Recycler, NUMI, transfer line). Alberto and Steve will schedule and announce the meetings. It is expected that the meetings will occur on Tuesday mornings at 10:00 in the Penthouse.

#### 4. AOB

- The next meeting will occur Tuesday, January 18, at 10:00 A.M., in the Penthouse.